**Year 7 Maths – Working Mathematically – Level 5**

Each student will be given a sheet of square dot paper (isometric paper).

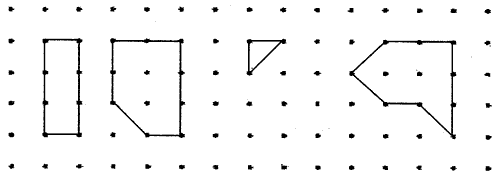
You will be investigating the relationship between the area and the perimeter of two-dimensional shapes using shapes drawn on this paper.

Draw at least twelve (12) different shapes and record:

* the number of dots on the perimeter of the shape
* the number of dots inside the shape
* the area (in square units) of the shape.

All edges are to be straight, all vertices (corners) are to use a dot. Work methodically – use some kind of a pattern when drawing and recording your answers.

Here are some examples:



A B C D

|  |  |  |  |
| --- | --- | --- | --- |
|  | P = Perimeter | I = No. of dots inside shape | A = Area of shape |
| A | 8 | 0 | 3 |
| B | 9 | 2 | 5.5 |
| C | 3 | 0 | 0.5 |
| D | 9 | 2 | 5.5 |